

Air and gas mixing apparatus having removable baffle plates

Publication number: GB2303803

Publication date: 1997-03-05

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Classification:

- **International:** B01F3/02; B01F5/06; B01F3/00; B01F5/06; (IPC1-7): B01D45/08

- **European:** B01F3/02C; B01F5/06B2B

Application number: GB19960015130 19960718

Priority number(s): US19950509829 19950801

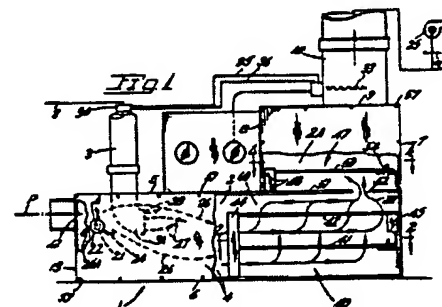
Also published as:

US5662722 (A1)
DE19629737 (A1)

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Abstract of GB2303803

A housing (1) receives ambient air through an inlet (12) located so as to direct the airflow against blades (24) of a rotor which disperses the airflow. A gas inlet conduit (3) discharges hazardous gas into a chamber of the housing, wherein the dispersed airflow acts on the gas to disperse and mix with the gas. The mixed air and hazardous gas flow impinges against a wall surface (7) of the housing prior to discharge therefrom via an outlet conduit (10). A source such as the intake side of a blower (25) induces the flow of air and hazardous gas through the housing and the outlet conduit. The rotor is located near the air inlet (12) of the housing for rotor operation by airflow drawn into the housing. A flow sensor (33) and damper (30) control system are provided. Baffle assemblies (40,47) are removably installed in the housing and include apertured plates (42,42,50) which collect particles deposited by the mixed air and gas flowing therethrough. Bypasses (60) are provided to ensure an uninterrupted mixed air and gas flow past the baffle plates.



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